

Category Group 81, Electricity.

Overview

1.1. This category group covers all components (transmission, generation, substation, primary and secondary distribution lines, transformers, protective and control devices, and associated equipment) of an electrical power system for a base or a portion of a base.

1.2. The category code numbers used here are for accounting purposes and for separate programming of new or replacement electrical plants, facilities, or distribution work. Where feasible, any specific category code items may also include programming for support utilities such as emergency generators and extensions of the base primary and secondary distribution system necessary to serve the prime item. Refer to the following documents for guidance in electrical facilities and electrical work in facilities.

1.2.1. AFI 32-1044, *Visual Air Navigation Systems* and UFC 3-535-01, *Visual Air Navigation Systems*.

1.2.2. AFI 32-1062, *Electrical Power Plants and Generators*.

1.2.3. AFI 32-1063, *Electric Power Systems*.

1.2.4. AFI 32-1065, *Grounding Systems*.

1.3. The following documents complement AFI 32-1063.

1.3.5. UFC 3-550-01, *Exterior Electrical Power Distribution*.

1.3.6. UFC 3-520-01, *Interior Electrical Systems*.

1.3.7. AFJMAN 32-1082, *Facilities Engineering Electrical Exterior Facilities*.

1.3.8. AFJMAN 32-1083, *Facilities Engineering Electrical Interior Facilities*.

1.3.9. AFI 32-1064, *Electrical Safe Practice*.

1.4. Provide all electrical power generating facilities with positive methods to preclude discharge of environmental pollutants. This should preferably be accomplished by control of fuel used. Where such control is not feasible, provide collection, treatment, and disposal facilities as an integral component of the electrical power generating facility.

1.5. Construct electrical facilities, including transmission and distribution lines, in compliance with explosives safety standards of DoD 6055.9-Std and AFMAN 91-201.